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IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings of the claims in the application.

Listing of the claims

- 1-4. (Canceled)
- 5. (Currently Amended) A pure mutant strain of *P. fluorescens* selected from the group consisting of the mutant strain Pf201, Pf2012, Pf2013, Pf20118, Pf20137, Pf20118algIJΔ, Pf20118algFΔ, Pf20118AlgLH203R and Pf201MC.
- 6. (Canceled)
- 7. (Currently Amended) The pure mutant strain of *P. fluorescens* of claim 5, wherein the said mutant strain is selected from the group consisting of: Pf2012, Pf2013, Pf20118, and Pf20137.
- 8 9. (Canceled)
- 10. (Currently Amended) The pure mutant strain of *P. fluorescens* of claim 5, wherein the said mutant strain is selected from the group consisting of: Pf20118alglJ Δ and Pf20118algf Δ .
- 11. (Canceled)
- 12. (Currently Amended) The pure mutant strain of *P. fluorescens* of claim 5, wherein the said mutant strain is Pf20118AlgLH203R.

- 13 14. (Canceled)
- 15. (Currently Amended) The pure mutant strain of *P. fluorescens* of claim 5, wherein the said mutant strain is Pf201MC.
- 16-37. (Canceled)
- 38. (New) A mutant strain of *P. fluorescens* being strain Pf201 or a variant thereof or a mutant strain of *P. fluorescens* which has the characteristics of strain Pf201 in relation to alginate production, wherein said variant or mutant strain produces at least 10 g alginate per liter medium and is stable over at least 60 generations.
- 39. (New) The mutant *P. fluorescens* strain of claim 38 which has a mutation corresponding to the mutation in strain Pf201 which results in alginate production at the level of at least 10g alginate per liter medium.
- 40. (New) The mutant strain of *P. fluorescens* of claim 38, wherein said mutant strain produces at least 10 g alginate per 40-55 g carbon source per liter medium.
- 41. (New) The mutant strain of *P. fluorescens* of claim 38, wherein said mutant strain produces at least 10 g alginate per 50-55 g carbon source per liter medium.
- 42. (New) The mutant strain of *P. fluorescens* of claim 38, wherein said mutant strain produces at least 10 g alginate per 40 g carbon source per liter
- 43. (New) The mutant strain of *P. fluorescens* of claim 38, wherein the said mutant produces an alginate consisting of mannuronate residues only.

DOCKET NO. 134542.00101 PATENT

- 44. (New) The mutant strain of *P. fluorescens* of claim 38, wherein the said mutant produces alginate having a defined guluronate residue (G)-content between 0 and 30%.
- 45. (New) The mutant strain of *P. fluorescens* of claim 38, wherein the said mutant produces alginate without, or with a reduced number of O-acetyl groups.
- 46. (New) The mutant strain of *P. fluorescens* of claim 38, wherein the said mutant produces alginate with a molecular weight of between 50,000 and 3,000,000 Daltons.
- 47. (New) The mutant strain of *P. fluorescens* of claim 38, wherein the mutant strain further comprises a mutant gene selected from the group consisting: a mutant *algG* gene, a mutant *algJ* gene, a mutant *algJ* gene, a mutant *algJ* gene, a mutant *algF* gene.
- 48. (New) The mutant strain of P. fluorescens of claim 38, wherein the mutant strain further comprises a mutant algG gene which encodes an epimerase enzyme having reduced epimerase activity.
- 49. (New) The mutant strain of P. fluorescens of claim 38, wherein the mutant strain further comprises a mutant algG gene which is inactivated.
- 50. (New) A biologically pure bacterial culture of the mutant strain of *P. fluorescens* of claim 38.
- 51. (New) A mutant strain of *P. fluorescens* which comprises a mutant *algG* gene and produces alginate having a defined guluronate residue (G)-content between 0 and 30%, wherein said *algG* gene is inactivated or encodes an enzyme having reduced epimerase activity,

DOCKET NO. 134542.00101 PATENT

- 52. (New) A mutant strain of *P. fluorescens* which produces alginate, wherein in said mutant strain the alginate biosynthetic operon has been placed under the control of an inducible promoter which replaces the native promoter of said operon.
- 53. (New) The mutant strain of *P. fluorescens* of claim 52, wherein said mutant strain produces at least 10g alginate per liter medium.
- 54 (New) The mutant strain of *P. fluorescens* of claim 52, wherein the inducible promoter is a Pm promoter or a mutant thereof.
- 55. (New) The mutant strain of *P. fluorescens* of claim 52, wherein the inducible promoter is a Pm promoter, and the mutant strain further comprising an xylS gene.
- 56. (New) The mutant strain of *P. fluorescens* of claim 52, wherein the inducible promoter is a Pm promoter from Pseudomonas putida TOL plasmid.
- 57. (New) The mutant strain of *P. fluorescens* of claim 52, wherein the said mutant produces an alginate consisting of mannuronate residues only.
- 58. (New) The mutant strain of *P*. fluorescens of claim 52, wherein the said mutant produces alginate having a defined guluronate residue (G)-content between 0 and 30%.
- 59. (New) The mutant strain of *P. fluorescens* of claim 52, wherein the said mutant produces alginate without, or with a reduced number of O-acetyl groups.
- 60. (New) The mutant strain of *P. fluorescens* of claim 52, wherein the said mutant produces alginate with a molecular weight of between 50,000 and 3,000,000 Daltons.

DOCKET NO. 134542.00101 PATENT

- 61. (New) The mutant strain of P. fluorescens of claim 52, wherein the mutant strain further comprises a mutant gene selected from the group consisting: a mutant algG gene, a mutant algI gene.
- 62. (New) The mutant strain of P. fluorescens of claim 52, wherein the mutant strain further comprises a mutant algG gene which encodes an epimerase enzyme having reduced epimerase activity.
- 63. (New) The mutant strain of P. fluorescens of claim 52, wherein the mutant strain further comprises a mutant algG gene which is inactivated
- 64. (New) A biologically pure bacterial culture of the mutant strain of *P. fluorescens* of claim 52.